

ABSTRACT OF THE DISCLOSURE

The present invention provides a field emission display device capable of operating under a low driving voltage and having an advantage in achieving a large-size display. The field emission display device includes a substrate, an anode electrode formed on the substrate to have a structure of plural line patterns, an insulation layer disposed on the substrate covering the anode electrode except a pixel area formed on the anode electrode, a phosphor layer disposed on the pixel area in contact with the anode electrode, a cathode electrode formed on the insulation layer and having a structure of plural line patterns to intersect with the anode electrode at a right angle, and a carbon nanotube emitter covering at least one edge of the cathode electrode for emitting electrons at least one of the phosphor layers.